

CLAIMS

The invention claimed is:

1. Eyewear for providing a clear, magnified, wide field of view comprising:
a pair of lens elements, each of said lens elements having a spherically shaped front surface, said front surface having a front surface center and a front surface radius, and a spherically shaped back surface, said back surface having a back surface center and a back surface radius, said front surface and said back surface defining a thickness therebetween, said lens element further having a nasal edge, a temporal edge and an optical node, said lens element further having a positive vertex power; and

wherein said front surface center is offset from said back surface center so that said thickness tapers from the thickest portion of said lens element in the direction of both said nasal edge and said temporal edge; and

wherein each of said lens elements are oriented in an as worn position so that an axis drawn through said front surface center and said back surface center diverges from a person's normal line of sight toward said temporal edge and so that said optical node is positioned outside of the person's normal line of sight and toward said temporal edge.

2. Eyewear according to claim 1 further comprising a frame, said frame supporting and orienting said pair of lens elements.

3. Eyewear according to claim 1 wherein said front surface radius is in the range of about 35-50 mm.
4. Eyewear according to claim 3 wherein said front surface radius is about 43 mm.
5. Eyewear according to claim 3 wherein said back surface radius is in the range of about 50-70 mm.
6. Eyewear according to claim 5 wherein said back surface radius is about 60 mm.
7. Eyewear according to claim 1 wherein said axis drawn through said front surface center and said back surface center is offset from said person's normal line of sight by an angle in the range of about 15-35 degrees.
8. Eyewear according to claim 7 wherein said angle is about 20.5 degrees.
9. Eyewear according to claim 1 wherein said lens element is manufactured from polycarbonate plastic.
10. Eyewear according to claim 1 wherein said vertex power is greater than +4 diopters
11. Eyewear according to claim 10 wherein said vertex power is +4.45 diopters.

12. Eyewear according to claim 1 wherein the resulting total range of vision for each lens element is about 70 degrees to the side of straight forward looking.

13. Eyewear according to claim 1 wherein said lens elements are spaced apart by a distance in the range of about 10-25 mm.

14. Eyewear according to claim 13 wherein said distance is about 18 mm.